

1. A color selection apparatus for a cathode ray tube, the color selection apparatus comprising:

a mask bearing short and long axis, the mask being provided with a plurality of beam-guide holes; and

a frame combined with the mask such that the mask is kept in a tensioned state, wherein the mask is tensioned in the long axis direction while being supported by the frame.

4. The color selection apparatus of claim 1, wherein the mask comprises a plurality of strips spaced apart from each other with a predetermined distance, and real bridges disposed between the neighboring strips while being spaced apart from each other with a predetermined distance, the beam-guide holes being formed with a plurality of slots longitudinally proceeding in the long axis

direction while being partitioned by the real bridges.

5. The color selection apparatus of claim 1, wherein the mask comprises a plurality of strips spaced apart from each other with a predetermined distance, the beam-guide holes being formed with single slots longitudinally proceeding in the long axis direction while being disposed between the neighboring strips.

6. A cathode ray tube, comprising:  
a panel with a substantially flat outer surface and an inner curved surface, the inner curved surface of the panel including a phosphor screen;  
a funnel connected to the panel while externally mounting a deflection unit for deflecting electron beams;  
a neck connected to the funnel while internally mounting an electron gun for emitting the electron beams; and  
a color selection apparatus internally fitted to the panel such that the electron beams land on correct phosphors of the phosphor screen,  
wherein the panel includes an effective screen with short and long axis while bearing a first thickness  $T_h$  at the ends of the effective screen in the long axis direction and a second thickness  $T_v$  at the ends of the effective screen in the short axis direction, the second thickness  $T_v$  of the panel being established to be larger than the first thickness  $T_h$  of the panel,

14 wherein the color selection apparatus includes a mask with short and long axis while bearing  
15 a plurality of beam-guide holes, and a frame combined with the mask such that the mask maintains  
16 a tensioned state, the mask being tensioned in the long axis direction while being supported by the  
17 frame.

1 7. The cathode ray tube of claim 6, wherein the panel includes a third thickness  $T_c$  at  
2 the center of the effective screen while satisfying the following condition:  $V/H \geq 1.1$  where  $V(\%)$  is  
3  $(T_v/T_c) \times 100$ , and  $H(\%)$  is  $(T_h/T_c) \times 100$ .

1 8. The cathode ray tube of claim 6, wherein the effective screen includes an aspect ratio  
2 of 4:3.

1 9. The cathode ray tube of claim 6, wherein the panel has a diagonal axis, and the length  
2  $L$  of the panel in the diagonal axis direction is established to be 23 inch or less.

1 10. A cathode ray tube, comprising:  
2 a panel with a substantially flat outer surface and an inner curved surface, the inner curved  
3 surface of the panel including a phosphor screen;  
4 a funnel connected to the panel while externally mounting a deflection unit for deflecting  
5 electron beams;

a color selection apparatus internally fitted to the panel such that the electron beams land on correct phosphors of the phosphor screen,

wherein the color selection apparatus includes a mask with a plurality of beam-guide holes corresponding to the phosphors, and a frame combined with the mask accommodating the mask being tensioned in the long axis direction,

wherein the electron beams emitted from the electron gun are directed toward the phosphor screen in line while being parallel to the short axis of the phosphor screen.

11. The cathode ray tube of claim 10, further comprised of the panel including an effective screen with short and long axis, a first thickness at the ends of the effective screen in the long axis direction being less than a second thickness at the ends of the effective screen in the short axis direction.

12. The cathode ray tube of claim 11, further comprised of a ratio of the second thickness to the first thickness being greater than or equal to 1.1.

- 1           13. The cathode ray tube of claim 12, further comprised of a tensional strength of the
- 2           periphery of the mask being greater than at the center of the mask.